INTERNATIONALSEARCHREPORT

International application No. PCT/JP 2004/015007

A CLASSIFICATIONOFSUBJECTMATTER				
Int.Cl ¹ G	L1B 5/65,5/738,5/851			
According to	International Patent Classification (IPC) or to both nati	onal classification and IPC	·	
	S SEARCHED		·	
Minimum doo	cumentation searched (classification system followed by cl	assification symbols)		
Int.Cl7 G	11B 5/62-5/858			
Japanese Application	on searched other than minimum documentation to the ex Utility Model Gazette 1922-1996, Japanese ons 1971-2004, Japanese Registered Utilit g the Utility Model 1996-2004	Publication of Unexamined Util	e fields scarched Lity Model apanese Gazette	
Electronic da	ta base consulted during the international search (name of	data base and, where practicable, search ter	ms used)	
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C. DOCUM	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.	
A	JP 9-204651 A (TOKYO SHIBAUR 1997.08.05 SEE WHOLE DOCUME	A ELECTRIC CO.) NT (Family: none)	1-20	
A	JP 2001-351217 A (FUJITSU LT 2001.12.21 SEE WHOLE DOCUME		1-20	
A	JP 2001-43526 A(FUJI ELECTR 2001.02.16 SEE WHOLE DOCUME		1-20	
A	JP 2002-83411 A(SONY CORP.) 2002.03.22 SEE WHOLE DOCUME		1-20	
A	JP 2002-208129 A (HITACHI MA 2002.07.26 SEE WHOLE DOCUME A1 & US 2003/215675 A1		1-20	
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Furth	er documents are listed in the continuation of Box C.	See patent family annex.	,	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
"E" earlier application or patent but published on or after the inter- "X" document of particular relevance; the claimed invention cannot pational filing date				
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) inventive step when the document is taken alone document of particular relevance; the claimed invention be considered to involve an inventive step when the document of particular relevance; the claimed invention be considered to involve an inventive step when the document is taken alone			e claimed invention cannot step when the document is	
means		combination being obvious to a pers	ion skilled in the art	
than t	nent published prior to the international filing date but later he priority date claimed	•		
Date of the actual completion of the international search 25.10.2004		Date of mailing of the international search report 09.11.2004		
Name and mailing address of the ISA/JP		Authorized officer	5D 3045	
Japan Patent Office		MASANORI TACHIBAN		
_		Telephone No. +81-3-3581-1101 I	Ext. 3550	

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A	JP 2002-334424 A(SHOWA DENKO K.K.) 2002.11.22 SEE WHOLE DOCUMENT (Family: none)	1-20
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